

Attorney Docket No. AUS920010745US1
Serial No. 09/981,882
Response to Office Action dated May 5, 2005

I. CLAIM AMENDMENTS

Please amend the claims as indicated in the following claim listing:

1. (Currently amended) A computer-implemented method of compressing and comparing
a plurality of lines of source data from a new file and an old file comprising ~~creating a~~
~~compressed string;~~

removing from each line of source data all blank spaces except for blank spaces within
quotation marks;

computing the length of each line of source data;

inserting control words into each line of source data; and

comparing lines of source data in the old file to lines of source data in the new file having
equal length to identify modified lines of source data;

wherein at least one control word is a pointer to another line of source data having the same
length;

wherein at least one control word is the length of the line; and

wherein the control words determine the order of navigation through the lines of source data
so that only lines of source data having the same length are compared.

2. (Canceled)

3. (Currently amended) The computer-implemented method of claim 21 further comprising
the step of placing all characters in the compressed string in words consisting of each line of
source data into four byte storage cells before comparing lines of source data.

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4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Currently amended) The computer-implemented method of claim 81 further wherein the step of comparing lines of source data comprising comprises:

selecting a first line from in the old file;

determining the length L of the selected first line;

comparing the selected first line in the old file to a first line in the new file;

responsive to determining that the selected line in the old file does not match the first line in the new file, navigating through the new file and comparing only lines in the new file having length L to the selected first line; and

responsive to determining that a line in the new file matches the selected first line, identifying all of the lines between the first compared line in the new file to the matched line in the new file as lines that have been added to the new file.

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10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Currently amended) The computer-implemented method of claim 439 further comprising:

~~determining whether a line of length L from the new file matches a line of length L from the old file, and responsive to a determination determining that a no line of length L from the new file does not matches a the selected first line of length L from the old file, selecting a first line in the new file having length L, navigating through the old file and comparing only lines in the old file having length L to the selected first line in the new file holding the position of the first line of length L of the new file, going through the old file, and examining only lines of length L in the old file; and~~

responsive to determining that a line in the old file matches the selected first line in the new file, identifying all of the lines in the old file between the first line selected and the matching line as deletions.

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16. (Canceled)

17. (Currently amended) The computer-implemented method of claim 15 further comprising, responsive to a ~~determination determining~~ that the selected no line from the old file ~~does not matches~~ a the selected first line of length L from the new file, identifying the ~~old selected first line in the new file~~ as changed.

18. (Withdrawn) An apparatus for comparing a plurality of sources, comprising:

- a programmable processor;
- a storage medium;
- a comparison program residing in the storage medium;
 - a compression program residing in the storage medium;
 - an old file residing in the storage medium;
 - a new file residing in the storage medium;
- wherein the compression program causes the processor to:
 - create a new file compressed string;
 - create an old file compressed string;
- wherein the comparison program causes the processor to:
 - compare lines of length L in the new file compressed string and the old file compressed string; and
 - identify lines that have been changed, added or deleted.

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19. (Withdrawn) The apparatus of claim 18 wherein the compression program creates the new file compressed string and the old file compressed string by removing all blank spaces except for code within quotation marks from all lines in the old file and the new file.

20. (Withdrawn) The apparatus of claim 19 wherein the compression program places all characters in the compressed string into words consisting of four byte storage cells.

21. (Withdrawn) The apparatus of claim 20 wherein the compression program creates a pointer to identify each word.

22. (Withdrawn) The apparatus of claim 19 wherein the compression program places a first control word, a second control word, a third control word and a fourth control word in front of each line in the compressed string.

23. (Withdrawn) The apparatus of claim 21 wherein the compression program identifies a first pointer and a last pointer.

24. (Withdrawn) The apparatus of claim 23 wherein the compression program places the first pointer and the last pointer in a links array.

25. (Withdrawn) An apparatus for comparing a plurality of sources, comprising:
a first computer having a first programmable processor and a first storage medium;
a second computer having a second programmable processor and a second storage medium;

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a comparison program residing in the first storage medium;
a compression program residing in the first storage medium;
an old file residing in the second storage medium;
a new file residing in the second storage medium;
wherein the first computer and the second computer are connected by a network;
wherein the compression program causes the first programmable processor to:
create a new file compressed string;
create an old file compressed string;
wherein the comparison program causes the first programmable processor to:
compare lines of length L in the new file compressed string and the old file
compressed string; and
identify lines that have been changed, added or deleted.

26. (Withdrawn) The apparatus of claim 25 wherein the compression program creates the new file compressed string and the old file compressed string by removing all blank spaces except for code within quotation marks from all lines in the old file and the new file.

27. (Withdrawn) The apparatus of claim 26 wherein the compression program places all characters in the compressed string into words consisting of four byte storage cells.

28. (Withdrawn) The apparatus of claim 27 wherein the compression program creates a pointer to identify each word.

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29. (Withdrawn) The apparatus of claim 27 wherein the compression program places a first control word, a second control word, a third control word and a fourth control word in front of each line in the compressed string.

30. (Withdrawn) The apparatus of claim 28 wherein the compression program identifies a first pointer and a last pointer.

31. (Withdrawn) The apparatus of claim 30 wherein the compression program places the first pointer and the last pointer in a links array.